22x34

NOTE 1- ASSEMBLE GASKETS (REF.8,9 & 21) AS PER SPEC. 9K-8.

NOTE 3- GUIDE (REF.18) TO BE ASSEMBLED AFTER RECEPTACLE UNIT (REF.7) HAS BEEN ATTACHED. LOCATE WALL OF RING (REF.23) USING GUIDE TEMPLATE. RIVET AS SHOWN.

NOTE 4- TEST PER TSG4368-003-01.

NOTE 5- SEE SHEET 4 FOR SCHEMATIC FRONT VIEW (FIG.9) SHOWING COLOR LIGHTS NUMBERING SYSTEM.

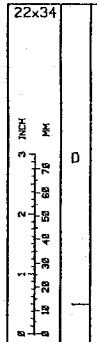
NOTE 6- LENS (REF.51) IS USED IN TOP AND BOTTOM MARKER LIGHTS ONLY. (WHERE CLEAR LENS 66101-005-00 IS CALLED FOR) TO BE ASSEMBLED BETWEEN REF.19 & 23.

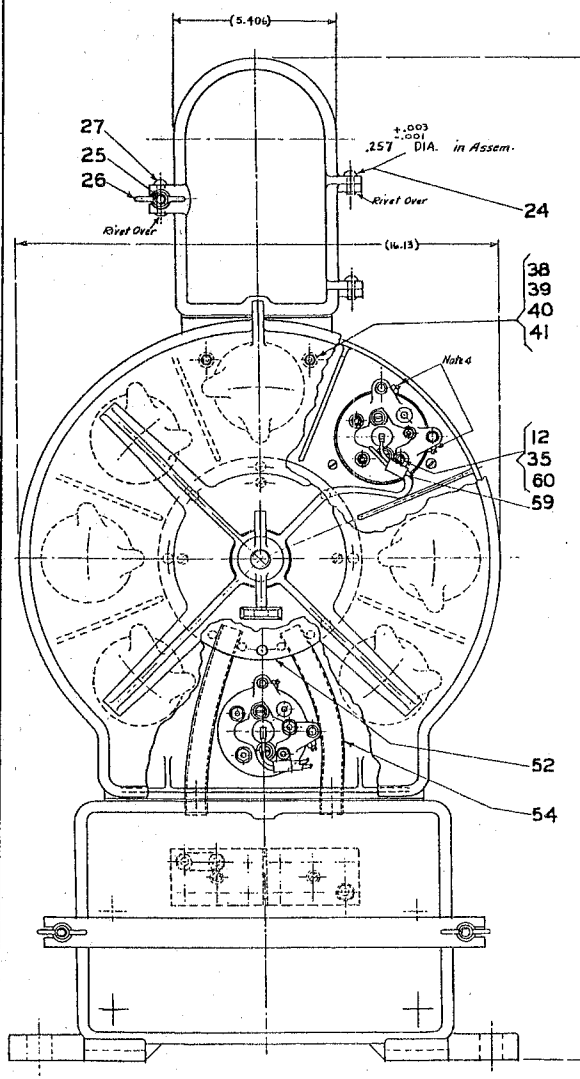
NOTE 7- APPLY THREE BEADS OF SEALING COMPOUND PER 9B8818, AT EQUIDISTANT POINTS BETWEEN LENS (REF.20) AND RING (REF.23).

~~NOTE 8- INSTRUCTION DRAWING AND REFERENCE DRAWING~~

NOTE 9- INSTALLATION OF MARKER LIGHTS IN FIELD REQUIRES A .875 DIAMETER HOLE IN CASE (REF.1) OR IN BASE (REF.3) FOR INSTALLING CONDUIT (REF.62 & 71).

NOTE 10- CHECK ROUTING ON REMOVAL OF ONE SIDE OF PLATE.



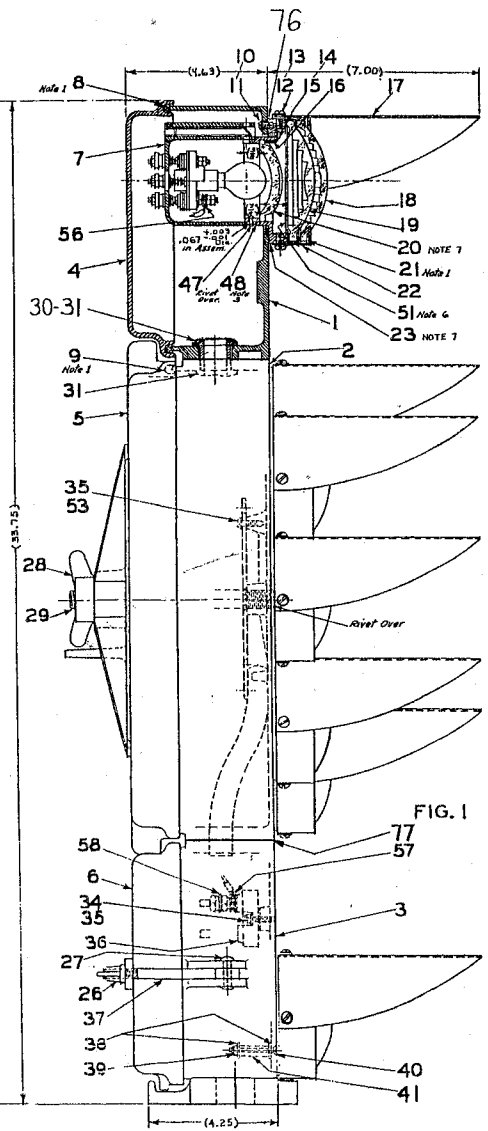
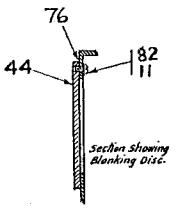
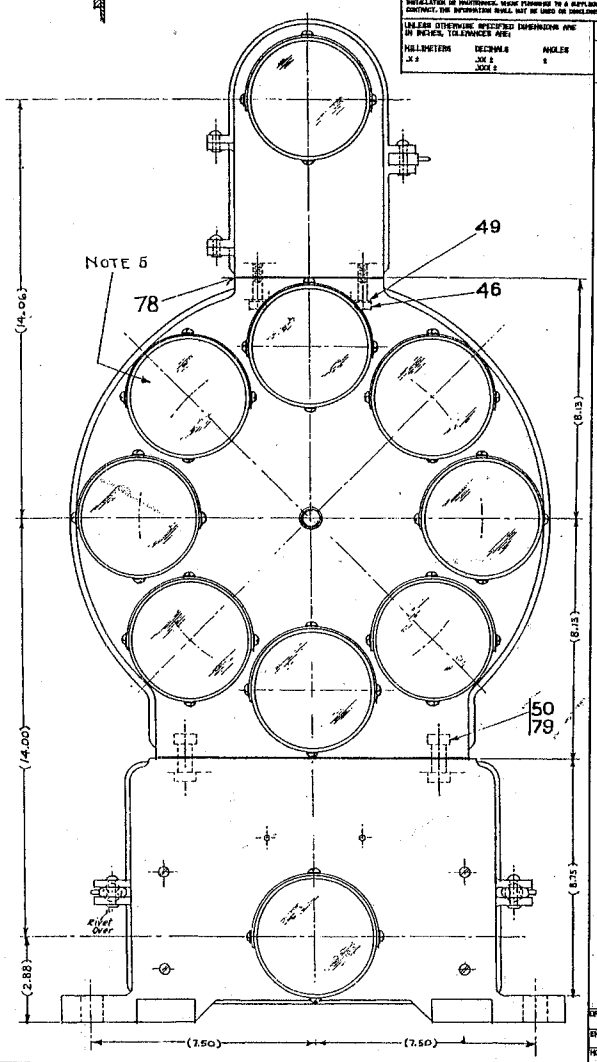




FIG. 1




GENERAL RAILWAY SIGNAL
ROCHESTER NEW YORK

SHEET 1 OF 3

NAME SIGNAL COMP. NO. 54360-003-00

DESC. S I G N A L , V A , C L , D W A B F ,

SUPERSEDES 54368-3 SH.1 REV.0 DATED 10-25-93

NOTICE OF CONFIDENTIAL INFORMATION. INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF THE GENERAL RAILWAY SIGNAL CORP., WHERE FURNISHED WITH A PROPOSAL THE RECIPIENT SHALL USE IT SOLELY TO EVALUATE THE PROPOSAL. WHERE FURNISHED TO A CUSTOMER IT SHALL BE USED SOLELY FOR THE PURPOSES OF INSPECTION, INSTALLATION OR MAINTENANCE. WHERE FURNISHED TO A BIDDER IT SHALL BE USED SOLELY IN THE PERFORMANCE OF THE CONTRACT. THIS INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSE WHATSOEVER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES, TOLERANCES ARE:

| MILLIMETERS | DECIMALS | ANGLES |
|---|---|---|
| .X ± | .XX ± | ° |
| | .XXX ± | |

| REV. NO. AND DATE OF DRAWING | REV'N LTR | APP'LS |
|---|---|---|
| REF.82 WAS SHOWN AS REF.18 IN VIEW OF BLANKING DISC. FIG.3&4 MOVED TO SHEET 2. R-A63996 5-18-94 | R | |

DR. M. BILLY | DESN. | CHKD. MJB

ENGR. CHE | MFG. ENGR. | APP'D. MDR

MODEL | EXT. 581

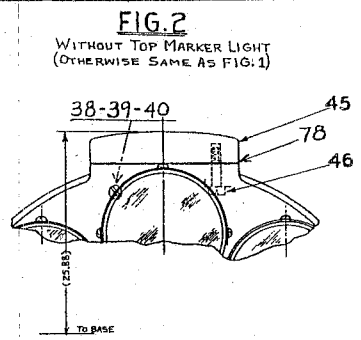



FIG. 2
WITHOUT TOP MARKER LIGHT
(OTHERWISE SAME AS FIG. 1)

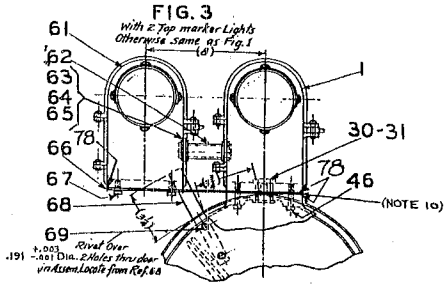



FIG. 3
With 2 Top marker Lights
Otherwise same as Fig. 1

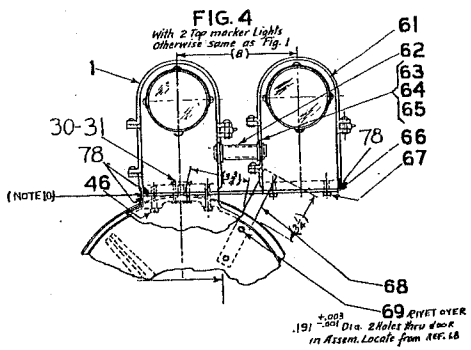



FIG. 4
With 2 Top marker Lights
Otherwise same as Fig. 1

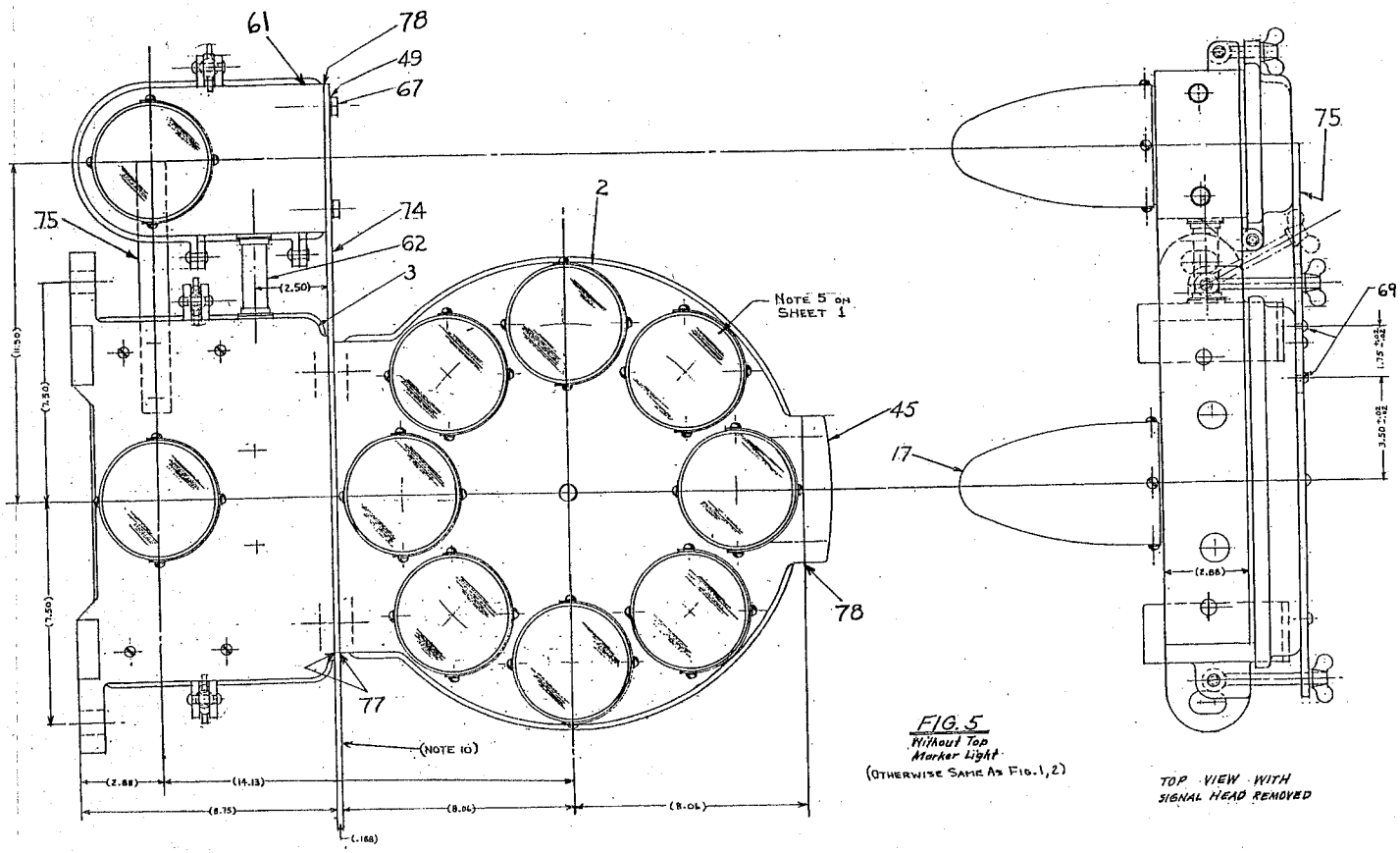



FIG. 5
Without Top
Marker Light
(OTHERWISE SAME AS FIG. 1, 2)

TOP VIEW WITH
SIGNAL HEAD REMOVED

GRS GENERAL RAILWAY SIGNAL
ROCHESTER NEW YORK

SHEET 2

NAME SIGNAL COMP. NO. 54360-003-00

DESC. SIGNAL VAC LOCK DWARF

STK. OR DEVICE

SUPERSEDES 54368-3 SH.2 REV.0 DATED 08-25-93

NOTICE OF CONFIDENTIAL INFORMATION — INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF THE GENERAL RAILWAY SIGNAL CORP., WHERE FURNISHED WITH A PROPOSAL THE RECIPIENT SHALL USE IT SOLELY TO EVALUATE THE PROPOSAL, WHERE FURNISHED TO A CONTRACTOR IT SHALL BE USED SOLELY FOR THE PURPOSES OF INSPECTION, INSTALLATION OR MAINTENANCE, WHERE FURNISHED TO A SUPPLIER IT SHALL BE USED SOLELY IN THE PERFORMANCE OF THE CONTRACT. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSE WHATSOEVER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES, TOLERANCES ARE:

| MILLIMETERS | DECIMALS | ANGLES |
|---|---|---|
| .X ± | .XX ± | ± |
| | .XXX ± | |

| REV. LTR | REV. NO. AND DATE OF DRAWING | APP'D |
|---|---|---|
| R | FIGURES 3 AND 4 WERE SHOWN ON SHEET 1. FORM UPDATED. R-A531995 5-18-94 | |

| DR. | DESR. | CHKD. |
|---|---|---|
| M. BILLY | | MJB |
| ENGR. | MFG ENGR. | APP'D. |
| CHE | | WDR |
| MODEL | EXT. | |
| | SB2 | |

| DRAWING NUMBER | FIG | COLOR LIGHT ARRANGEMENT CHART | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 54368-003-01 | 1 | G | Y | R | LW | G | Y | R | LW | — | C | — | — | C | — |
| -02 | 1 | G | Y | R | X | G | Y | R | X | — | C | — | — | X | — |
| -03 | 2 | X | Y | R | LW | X | Y | R | LW | — | — | — | — | C | — |
| -04 | 2 | X | X | R | LW | X | X | R | LW | — | — | — | — | X | — |
| -05 | 2 | G | Y | R | LW | G | Y | R | LW | — | — | — | — | X | — |
| -06 | 2 | X | Y | R | X | X | Y | R | X | — | — | — | — | C | — |
| -07 | 2 | G | Y | R | X | G | Y | R | X | — | — | — | — | X | — |
| -08 | 2 | G | Y | R | LW | G | Y | R | LW | — | — | — | — | C | — |
| -09 | 2 | G | Y | R | X | G | Y | R | X | — | — | — | — | C | — |
| 54368-003-10 | 1 | G | Y | R | LW | G | Y | R | LW | — | C | — | — | X | — |
| -11 | 1 | X | Y | R | LW | X | Y | R | LW | — | C | — | — | C | — |
| -12 | 2 | X | X | R | X | X | X | R | X | — | — | — | — | X | — |
| -13 | 2 | G | Y | X | LW | G | Y | X | LW | — | — | — | — | X | — |
| -14 | 2 | X | Y | R | LW | X | Y | R | LW | — | — | — | — | C | — |
| -15 | 1 | X | Y | R | LW | X | Y | R | LW | — | C | — | — | X | — |
| -16 | 1 | X | X | R | LW | X | X | R | LW | — | C | — | — | C | — |
| -17 | 2 | G | X | R | LW | G | X | R | LW | — | — | — | — | X | — |
| -18 | 2 | X | X | R | LW | X | X | R | LW | — | — | — | — | C | — |
| -19 | 1 | X | X | R | LW | X | X | R | LW | — | C | — | — | X | — |
| 54368-003-20 | 3 | G | Y | R | LW | G | Y | R | LW | C | C | — | — | C | — |
| -21 | 1 | X | Y | R | X | X | Y | R | X | — | C | — | — | C | — |
| -22 | 2 | G | X | R | X | G | X | R | X | — | — | — | — | X | — |
| -23 | 1 | G | X | R | X | G | X | R | X | — | C | — | — | X | — |
| -24 | 4 | G | Y | R | LW | G | Y | R | LW | — | C | Y | — | X | — |
| -25 | 1 | G | Y | R | X | G | Y | R | X | — | C | — | — | C | — |
| -26 | 1,5 | G | Y | R | X | G | Y | R | X | — | — | — | C | C | — |
| -27 | 1,5 | G | Y | R | X | G | Y | R | X | — | C | — | C | C | — |
| -28 | 6 | G | Y | R | LW | G | Y | R | LW | C | C | Y | C | C | Y |
| -29 | 4 | G | Y | R | LW | G | Y | R | LW | — | C | Y | — | C | — |
| 54368-003-30 | 3 | G | Y | R | X | G | Y | R | X | C | C | — | — | X | — |
| -31 | 3 | G | Y | R | LW | G | Y | R | LW | C | C | — | — | X | — |
| -32 | 2 | X | Y | R | X | X | Y | R | X | — | — | — | — | X | — |
| -33 | 1 | X | Y | R | X | X | Y | R | X | — | C | — | — | X | — |
| -34 | 1 | G | X | R | LW | G | X | R | LW | — | C | — | — | X | — |

| DRAWING NUMBER | FIG | COLOR LIGHT ARRANGEMENT CHART | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| -35 | 1 | G | Y | X | LW | G | Y | X | LW | — | C | — | — | C | — |
| -36 | 1 | G | X | R | LW | G | X | R | LW | — | C | — | — | C | — |
| -37 | 3,6 | G | Y | R | X | G | Y | R | X | C | C | — | C | C | — |
| -38 | 6 | G | Y | R | X | G | Y | R | X | C | C | Y | — | C | Y |
| -39 | 6 | G | Y | R | X | G | Y | R | X | — | C | — | C | C | Y |
| 54368-003-41 | 3,6 | G | Y | R | LW | G | Y | R | LW | C | C | — | C | C | — |
| -42 | 1,6 | G | Y | R | LW | G | Y | R | LW | — | C | — | C | C | — |
| -43 | 2 | X | Y | X | LW | X | Y | X | LW | — | — | — | — | X | — |
| -44 | 3 | G | Y | R | X | G | Y | R | X | C | C | — | — | C | — |
| -46 | 4 | G | Y | R | X | G | Y | R | X | — | C | Y | — | X | — |
| -47 | 2 | X | X | X | LW | X | X | X | LW | — | — | — | — | C | — |
| -48 | 6 | X | Y | R | LW | X | Y | R | LW | — | — | — | C | C | — |
| 54368-003-51 | 1,6,7 | G | Y | R | LW | G | Y | R | LW | C | C | — | C | C | Y |
| -52 | 1,2,8 | X | Y | X | X | X | Y | X | X | — | — | — | — | X | — |
| -53 | 1,2,8 | G | X | X | X | G | X | X | X | — | — | — | — | X | — |
| -54 | 1,2,8 | G | X | X | Y | G | X | X | Y | — | — | — | — | X | — |
| -55 | 1,2,8 | G | Y | X | X | G | Y | X | X | — | — | — | — | X | — |
| -56 | 1,2,8 | X | X | X | Y | X | X | X | Y | — | — | — | — | X | — |
| -57 | 1,2,8 | G | Y | X | Y | G | Y | X | Y | — | — | — | — | X | — |
| -58 | 1,2,8 | X | Y | X | Y | X | Y | X | Y | — | — | — | — | X | — |
| -59 | 6 | G | Y | R | X | G | Y | R | X | C | C | Y | — | X | — |
| 54368-003-60 | 1,5,6 | G | Y | R | LW | G | Y | R | LW | — | — | — | C | C | Y |
| -61 | 3 | G | LW | R | X | G | LW | R | X | C | C | — | — | X | — |
| -62 | 8 | G | Y | R | X | G | Y | R | X | C | C | Y | — | C | — |
| -63 | 4 | G | Y | R | X | G | Y | R | X | — | C | Y | — | C | — |
| -64 | 1,5,6 | G | Y | R | LW | G | Y | R | LW | — | — | — | — | C | Y |
| -65 | 1,4 | — | Y | R | — | — | Y | R | — | — | — | LW | Y | — | LW |
| -66 | 2,8 | G | Y | R | — | G | Y | R | — | — | — | — | LW | LW | Y |
| -67 | 6 | G | Y | R | LW | G | Y | R | LW | — | C | — | — | C | Y |

| LEGEND |
|---|
| G = GREEN |
| Y = YELLOW |
| R = RED |
| LW = LUNAR WHITE |
| C = CLEAR |
| X = BLANK |
| — = NO UNIT |

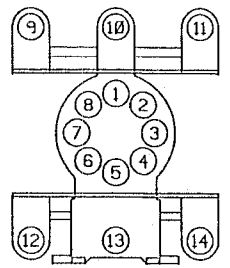



FIG.9
SCHEMATIC FRONT VIEW
SHOWING COLOR LIGHTS NUMBERING SYSTEM

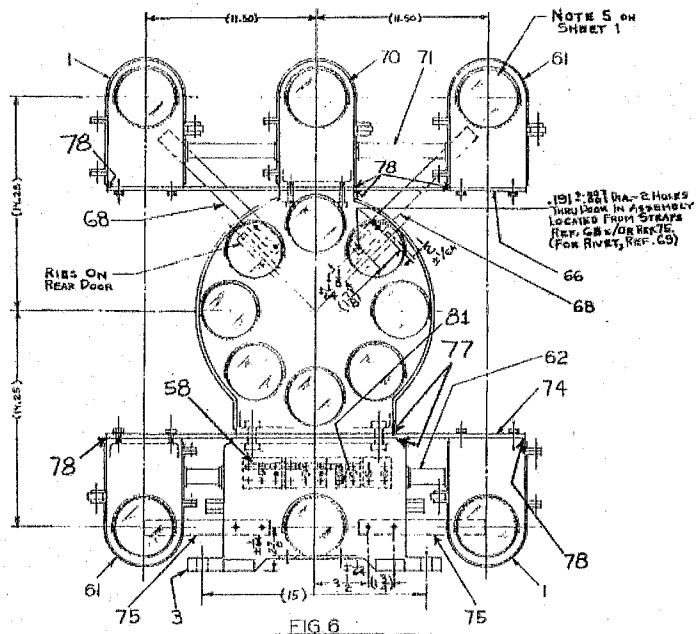



FIG 6
With Upper & Lower Marker Lights
(OTHERWISE SAME FIG.1)

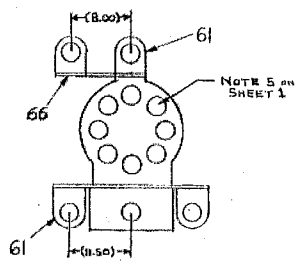
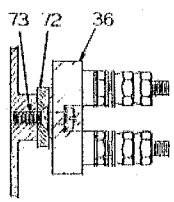



FIG.7
OTHERWISE SAME AS FIG.1 & 6



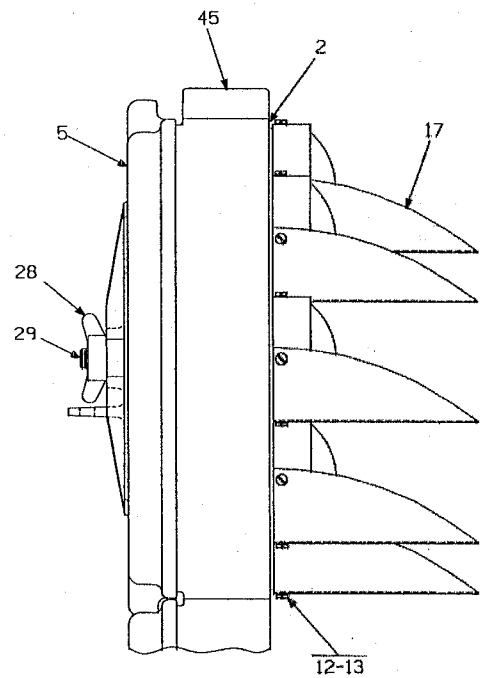




FIG.8
OTHERWISE SAME AS FIG.1 & 2
(NOTE: UNIT IS MOUNTED 180° FROM VIEW SHOWN)

GRS GENERAL RAILWAY SIGNAL ROCHESTER NEW YORK

SHEET 3

SIGNAL COMP. NO. 54360-003-00

SIGNAL, V.A, C.L, B.W.A.R.F.

SUPERSEDES 54368-3 SH.4 & SH.5 REV.P DATED 7-21-93

NOTICE OF CONFIDENTIAL INFORMATION

| REV. | REMARKS | DATE | APP'D |
|---|---|---|---|
| Q | REDRAWN SHEETS 4 AND SHEET 5 COMBINED. NO CHANG CHANGES. R-A63282 | 10-25-93 | |
| R | FIG'S 6 AND 7 WERE NOT SIGNAL R-A63498 | 5-18-94 | HJB CME WEH |

DR. H. BILLY CHKD. CHK'D. HJB
TRACE. EM APP'D. WEH
MATL. EXT. 684

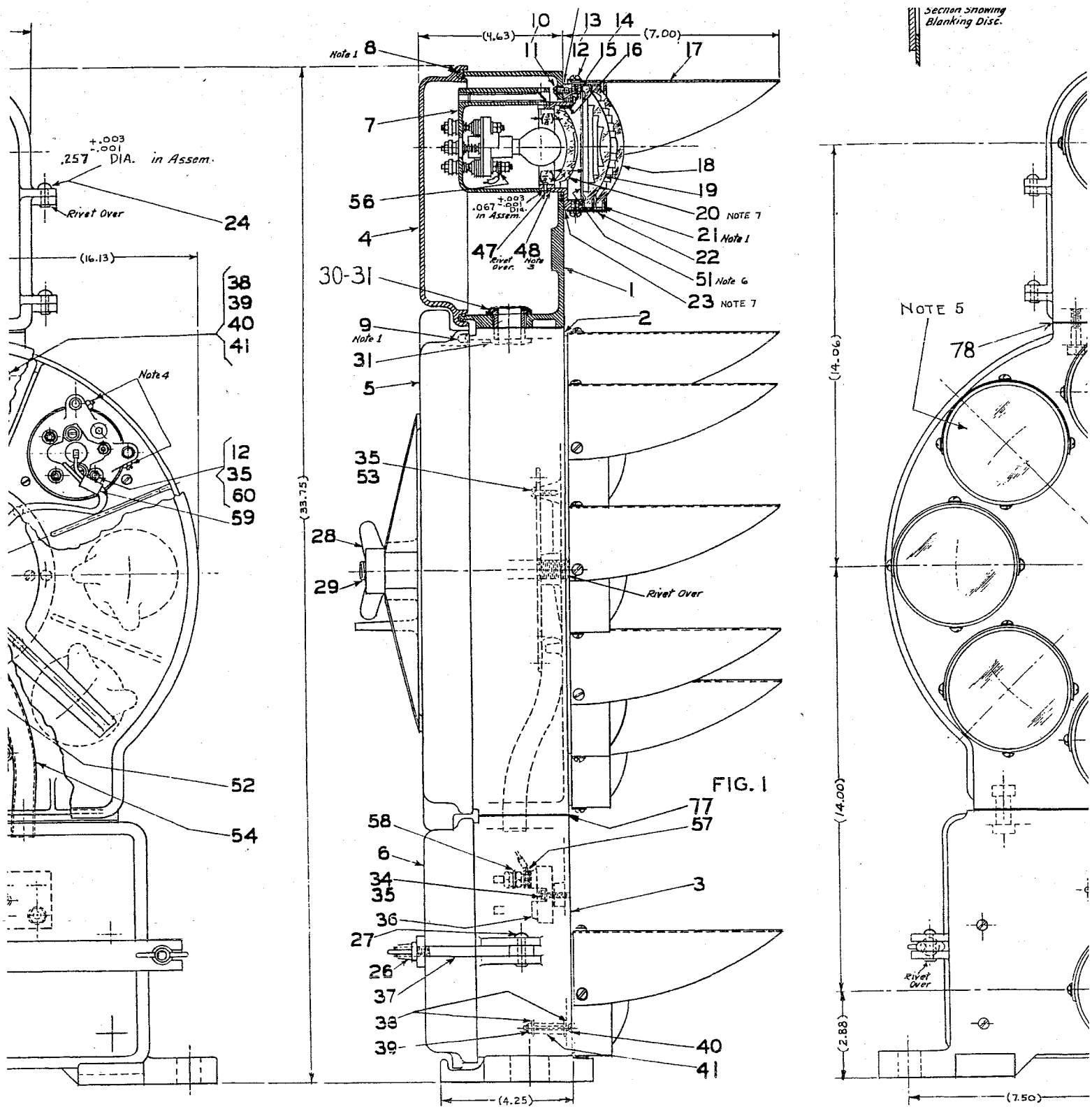

Section Showing Blanking Disc.
(4.63)
(7.00)
10
13
14
11
12
15
16
17
Note 1
8
7
18
19
20 NOTE 7
21 Note 1
22
51 Note 6
23 NOTE 7
56
4
47
48
Rivet Over. Note 3
30-31
1
2
9
Note 1
31
5
35
53
28
29
Rivet Over
77
57
58
6
34
35
36
27
26
37
38
39
3
40
41
(4.25)
(33.75)
.257 +.003 -.001 DIA. in Assem.
Rivet Over
24
(16.13)
38
39
40
41
Note 4
12
35
60
59
52
54
.067 +.003 -.001 Dia. in Assem.
NOTE 5
78
(14.06)
(14.00)
(2.88)
Rivet Over
(7.50)

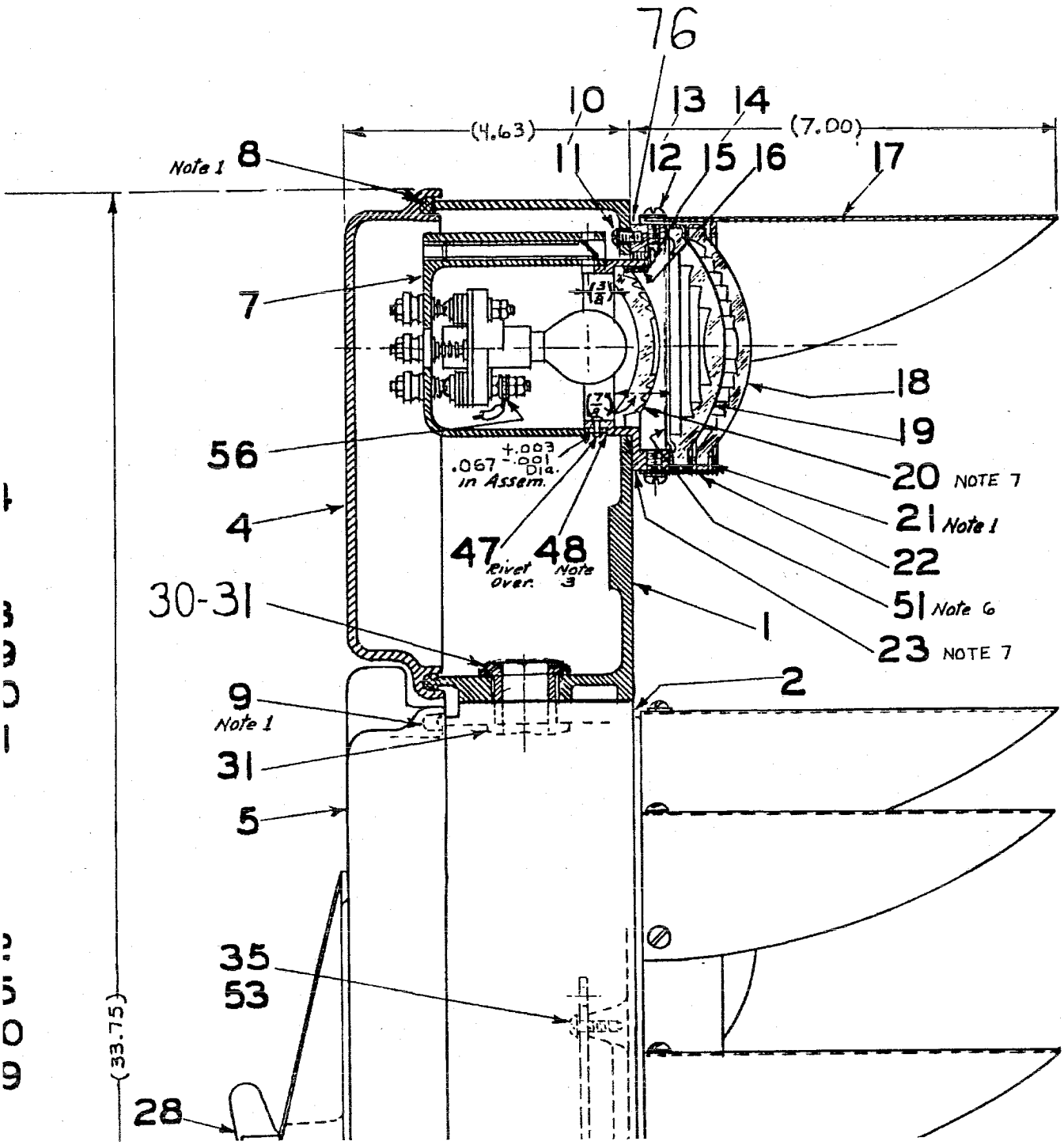
FIG. 1

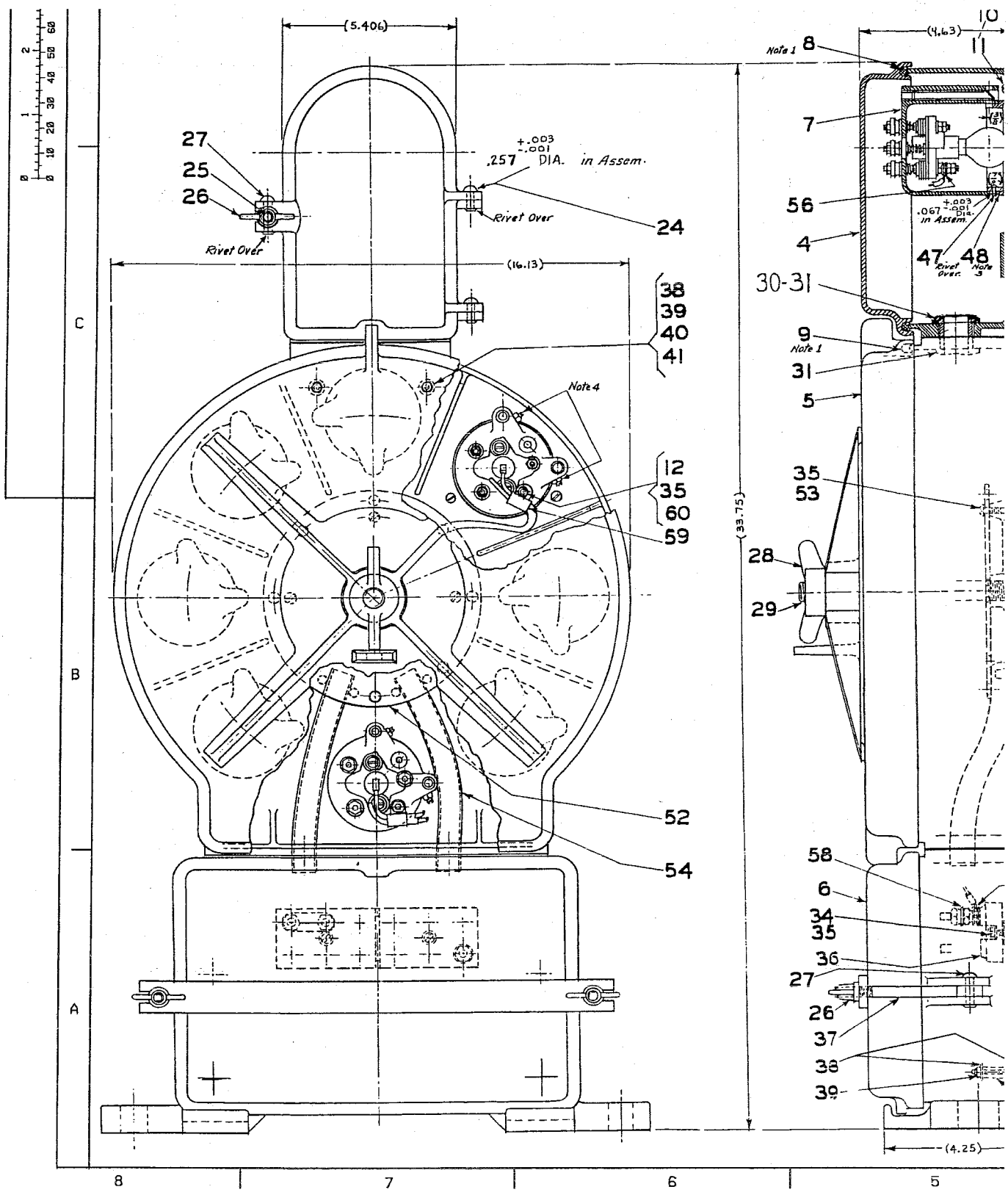
6 5 4 3

NOTE 9:- INSTALLATION OF MARKER LIGHTS IN FIELD REQUIRES A .875 DIAMETER HOLE IN CASE (REF.1) OR IN BASE (REF.3) FOR INSTALLING CONDUIT (REF.62 & 71).

NOTE 10:- CHECK ROUTING ON REMOVAL OF ONE SIDE OF PLATE.






(5.406)
(16.13)
(4.63)
(33.75)
(4.25)
.257 +.003 -.001 DIA. in Assem.
Rivet Over
Note 1
Note 3
Note 4
.067 +.003 -.001 Dia. in Assem.
8
7
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48
30-31
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| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -31 | 3 | G | Y | R | LW | G | Y | R | LW | C | C | — | — | X | — |
| -32 | 2 | X | Y | R | X | X | Y | R | X | — | — | — | — | X | — |
| -33 | 1 | X | Y | R | X | X | Y | R | X | — | C | — | — | X | — |
| -34 | 1 | G | X | R | LW | G | X | R | LW | — | C | — | — | X | — |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -65 | 1,4 | — | Y | R | — | — | Y | R | — | — | LW | Y | — | LW | — |
| -66 | 2,6 | G | Y | R | — | G | Y | R | — | — | — | — | LW | LW | Y |
| -67 | 6 | G | Y | R | LW | G | Y | R | LW | — | C | — | — | C | Y |

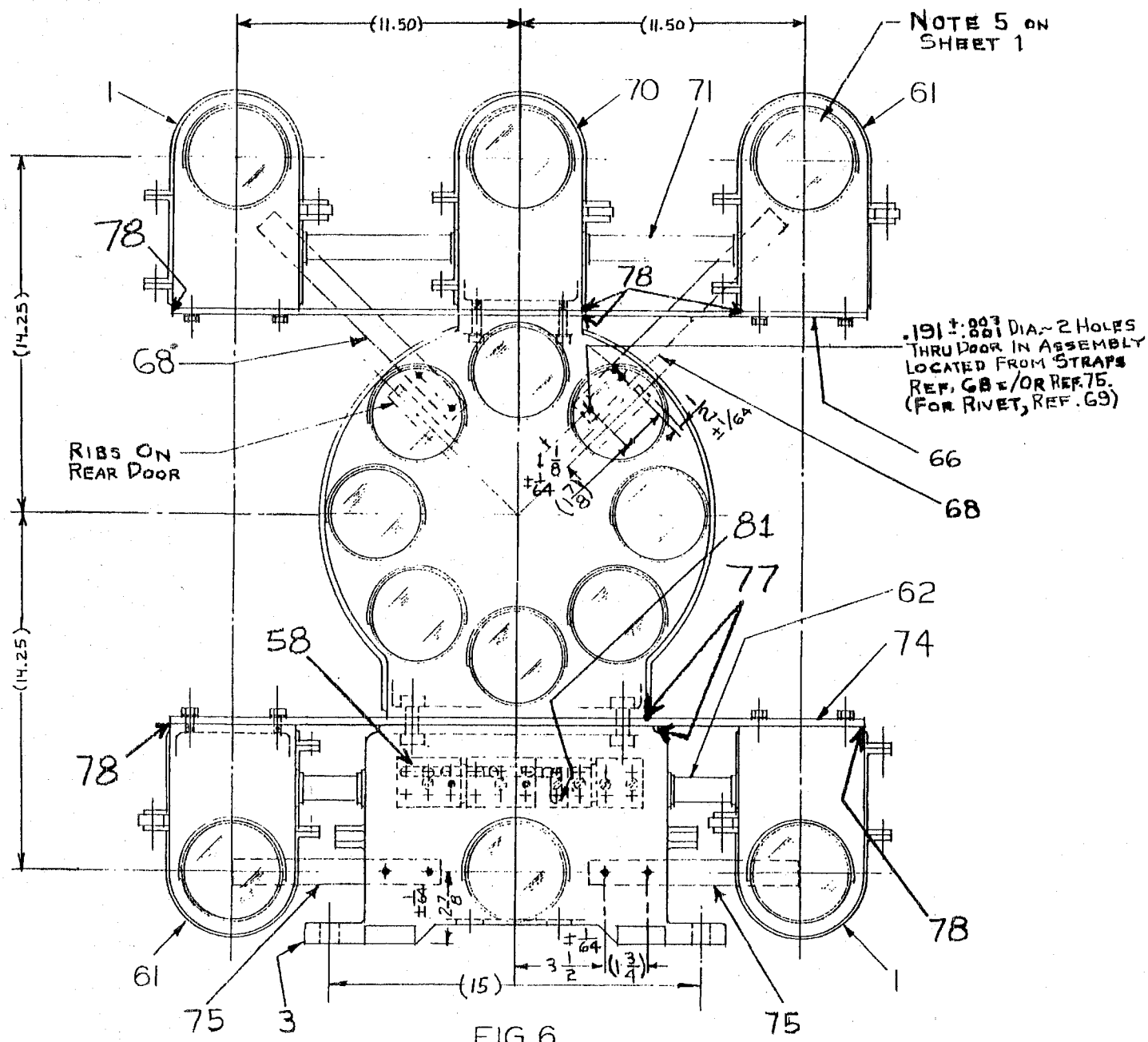



FIG. 6

*With Upper & Lower Marker Lights*

(OTHERWISE SAME FIG. 1)

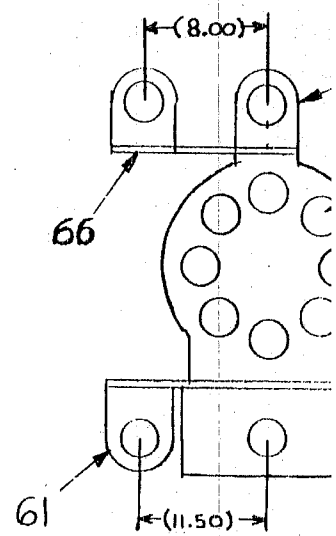
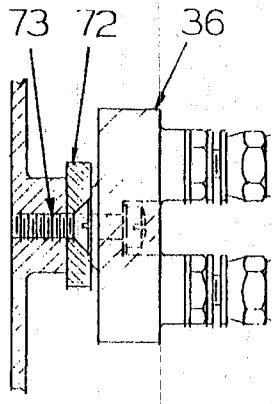


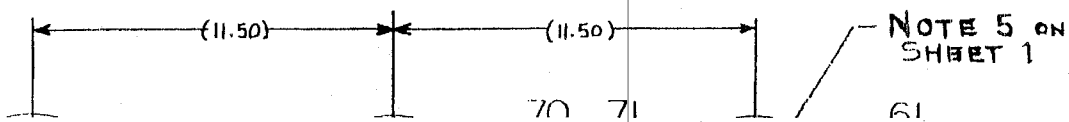

FIG. 7

OTHERWISE SAME A



| DRAWING NUMBER | FIG | COLOR LIGHT ARRANGEMENT CHART | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 54360-003-01 | 1 | G | Y | R | LW | G | Y | R | LW | — | C | — | — | C | — |
| -02 | 1 | G | Y | R | X | G | Y | R | X | — | C | — | — | X | — |
| -03 | 2 | X | Y | R | LW | X | Y | R | LW | — | — | — | — | X | — |
| -04 | 2 | X | X | R | LW | X | X | R | LW | — | — | — | — | X | — |
| -05 | 2 | G | Y | R | LW | G | Y | R | LW | — | — | — | — | X | — |
| -06 | 2 | X | Y | R | X | X | Y | R | X | — | — | — | — | C | — |
| -07 | 2 | G | Y | R | X | G | Y | R | X | — | — | — | — | X | — |
| -08 | 2 | G | Y | R | LW | G | Y | R | LW | — | — | — | — | C | — |
| -09 | 2 | G | Y | R | X | G | Y | R | X | — | — | — | — | C | — |
| 54360-003-10 | 1 | G | Y | R | LW | G | Y | R | LW | — | C | — | — | X | — |
| -11 | 1 | X | Y | R | LW | X | Y | R | LW | — | C | — | — | C | — |
| -12 | 2 | X | X | R | X | X | X | R | X | — | — | — | — | X | — |
| -13 | 2 | G | Y | X | LW | G | Y | X | LW | — | — | — | — | X | — |
| -14 | 2 | X | Y | R | LW | X | Y | R | LW | — | — | — | — | C | — |
| -15 | 1 | X | Y | R | LW | X | Y | R | LW | — | C | — | — | X | — |
| -16 | 1 | X | X | R | LW | X | X | R | LW | — | C | — | — | C | — |
| -17 | 2 | G | X | R | LW | G | X | R | LW | — | — | — | — | X | — |
| -18 | 2 | X | X | R | LW | X | X | R | LW | — | — | — | — | C | — |
| -19 | 1 | X | X | R | LW | X | X | R | LW | — | C | — | — | X | — |
| 54360-003-20 | 3 | G | Y | R | LW | G | Y | R | LW | C | C | — | — | C | — |
| -21 | 1 | X | Y | R | X | X | Y | R | X | — | C | — | — | C | — |
| -22 | 2 | G | X | R | X | G | X | R | X | — | — | — | — | X | — |
| -23 | 1 | G | X | R | X | G | X | R | X | — | C | — | — | X | — |
| -24 | 4 | G | Y | R | LW | G | Y | R | LW | — | C | Y | — | X | — |
| -25 | 1 | G | Y | R | X | G | Y | R | X | — | C | — | — | C | — |
| -26 | 1,5 | G | Y | R | X | G | Y | R | X | — | — | — | C | C | — |
| -27 | 1,5 | G | Y | R | X | G | Y | R | X | — | C | — | C | C | — |
| -28 | 6 | G | Y | R | LW | G | Y | R | LW | C | C | Y | C | C | Y |
| -29 | 4 | G | Y | R | LW | G | Y | R | LW | — | C | Y | — | C | — |
| 54360-003-30 | 3 | G | Y | R | X | G | Y | R | X | C | C | — | — | X | — |
| -31 | 3 | G | Y | R | LW | G | Y | R | LW | C | C | — | — | X | — |
| -32 | 2 | X | Y | R | X | X | Y | R | X | — | — | — | — | X | — |
| -33 | 1 | X | Y | R | X | X | Y | R | X | — | C | — | — | X | — |
| -34 | 1 | G | X | R | LW | G | X | R | LW | — | C | — | — | X | — |

| DRAWING NUMBER | FIG | COLOR LIGHT ARRANGEMENT CHART | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| -35 | 1 | G | Y | X | LW | G | Y | X | LW | — | C | — | — | C | — |
| -36 | 1 | G | X | R | LW | G | X | R | LW | — | C | — | — | C | — |
| -37 | 3,5 | G | Y | R | X | G | Y | R | X | C | C | — | C | C | — |
| -38 | 6 | G | Y | R | X | G | Y | R | X | C | C | Y | — | C | Y |
| -39 | 6 | G | Y | R | X | G | Y | R | X | — | C | — | C | C | Y |
| | | | | | | | | | | | | | | | |
| 54360-003-41 | 3,5 | G | Y | R | LW | G | Y | R | LW | C | C | — | C | C | — |
| -42 | 1,5 | G | Y | R | LW | G | Y | R | LW | — | C | — | C | C | — |
| -43 | 2 | X | Y | X | LW | X | Y | X | LW | — | — | — | — | X | — |
| -44 | 3 | G | Y | R | X | G | Y | R | X | C | C | — | — | C | — |
| | | | | | | | | | | | | | | | |
| -46 | 4 | G | Y | R | X | G | Y | R | X | — | C | Y | — | X | — |
| -47 | 2 | X | X | X | LW | X | X | X | LW | — | — | — | — | C | — |
| -48 | 5 | X | Y | R | LW | X | Y | R | LW | — | — | — | C | C | — |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 54360-003-51 | 1,6,7 | G | Y | R | LW | G | Y | R | LW | C | C | — | C | C | Y |
| -52 | 1,2,8 | X | Y | X | X | X | Y | X | X | — | — | — | — | X | — |
| -53 | 1,2,8 | G | X | X | X | G | X | X | X | — | — | — | — | X | — |
| -54 | 1,2,8 | G | X | X | Y | G | X | X | Y | — | — | — | — | X | — |
| -55 | 1,2,8 | G | Y | X | X | G | Y | X | X | — | — | — | — | X | — |
| -56 | 1,2,8 | X | X | X | Y | X | X | X | Y | — | — | — | — | X | — |
| -57 | 1,2,8 | G | Y | X | Y | G | Y | X | Y | — | — | — | — | X | — |
| -58 | 1,2,8 | X | Y | X | Y | X | Y | X | Y | — | — | — | — | X | — |
| -59 | 6 | G | Y | R | X | G | Y | R | X | C | C | Y | — | X | — |
| 54360-003-60 | 1,5,6 | G | Y | R | LW | G | Y | R | LW | — | — | — | C | C | Y |
| -61 | 3 | G | LW | R | X | G | LW | R | X | C | C | — | — | X | — |
| -62 | 6 | G | Y | R | X | G | Y | R | X | C | C | Y | — | C | — |
| -63 | 4 | G | Y | R | X | G | Y | R | X | — | C | Y | — | C | — |
| -64 | 1,5,6 | G | Y | R | LW | G | Y | R | LW | — | — | — | — | C | Y |
| -65 | 1,4 | — | Y | R | — | — | Y | R | — | — | LW | Y | — | LW | — |
| -66 | 2,6 | G | Y | R | — | G | Y | R | — | — | — | — | LW | LW | Y |
| -67 | 6 | G | Y | R | LW | G | Y | R | LW | — | C | — | — | C | Y |



NOTE 1:- ASSEMBLE GASKETS (REF.8,9 & 21) AS PER SPEC. 9K-8.

NOTE 3:- GUIDE (REF.48) TO BE ASSEMBLED AFTER RECEPTACLE UNIT (REF.7) HAS BEEN ATTACHED. LOCATE WALL OF RING (REF.23) USING GUIDE TEMPLATE. RIVET AS SHOWN.

NOTE 4:- TEST PER TS54360-003-01.

NOTE 5:- SEE SHEET 4 FOR SCHEMATIC FRONT VIEW (FIG.9) SHOWING COLOR LIGHTS NUMBERING SYSTEM.

NOTE 6:- LENS (REF.51) IS USED IN TOP AND BOTTOM MARKER LIGHTS ONLY. (WHERE CLEAR LENS 56901-005-00 IS CALLED FOR) TO BE ASSEMBLED BETWEEN REF.19 & 23.

there is no sheet 4 - is on sheet 3

NOTE 7:- APPLY THREE BEADS OF SEALING COMPOUND PER 90B0010, AT EQUIDISTANT POINTS BETWEEN LENS (REF.20) AND RING (REF.23).

~~NOTE 8:- ALL FINISH DIMENSIONS ARE REFERENCE DIMENSIONS.~~

NOTE 9:- INSTALLATION OF MARKER LIGHTS IN FIELD REQUIRES A .875 DIAMETER HOLE IN CASE (REF.1) OR IN BASE (REF.3) FOR INSTALLING CONDUIT (REF.62 & 71).

NOTE 10:- CHECK ROUTING ON REMOVAL OF ONE SIDE OF PLATE.

76

10 13 14

| ADJUSTMENT AND TEST PROCEDURE FOR<br>VA SIGNAL COMPLETE PN 54360-3 ALL GROUPS | TS54360-3 Gr.1<br><br>SHEET 1 OF 4 |
|---|---|

4825S

6-14-95

1.0 PURPOSE

This procedure should be used in the test and adjustment of all types of VA signals.

2. EQUIPMENT REQUIRED FOR TEST AND ADJUSTMENT

A. 10VDC, 2A power supply or equivalent (battery)
B. Flat surface or fixture, 20" above ground level for signal mounting.
C. VA signal target board set up 25 ft. away. See Figure 1.
D. Circuits and wiring diagrams for particular signal to be tested.

3.0 FOCUSING AND ADJUSTMENT

A. Mount signal head to the 20" above ground level, flat surface such that the light beams will be perpendicular to the target board and in line with the appropriate targets. Signal head itself should be 25 ft. away from the target board.

B. Referring to the terminal block on the appropriate wiring diagram for the signal under test, connect the power leads such that the lamp in the lens unit to be adjusted is lit. Note: All lamps use the 10 volt supply previously called out.

C. Insure that the lens unit is locked in position by checking that the knurled nut is turned down tight against the boss on the holder casting. Adjust the three lamp receptacle lock nuts until the beam pattern from the unit is lined up (left to right) on the target corresponding to the lens unit being adjusted. A sharp vertically elongated beam pattern should be visible with its brightest region centered on the appropriate target.

D. When proper focus and alignment are reached, remove the lens unit by unscrewing the knurled nut to the peaned over end of the stud. Press the knurled nut and rotate counterclockwise to disengage the latch, the lens unit may then be removed. The lamp should still be lit.

E. Place a sighting device (51120-4 Gr. 1) in the appropriate hole in the receptacle unit casting. Assemble the locking ball and set screw parts (dwg. 56895, ref. 14, 7, and 8 respectively) into the threaded hole which adjoins the sighting device cavity. Do not tighten these! Adjust the position of the sighting device with a paperclip or other custom adjustment tool to produce the following indications:

NOTICE OF CONFIDENTIAL INFORMATION Information contained herein is confidential and is the property of the General Railway Signal Company Where furnished with a proposal the recipient shall use it solely to evaluate the proposal Where furnished to a customer it shall be used solely for purposes of inspection, installation or maintenance Where furnished to a supplier it shall be used solely in the performance of the contract The information shall not be used or disclosed by the recipient for any other purpose whatsoever

| | | REV | | REV | | REV | | REV | | REV | | REV | | REV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | 6-14-95 | REV | | REV | | REV | | REV | | REV | | REV | | REV |
| R NO | A42170 | A | | | | | | | | | | | | |
| CH'K'D | TMS 6/2 LA | | | | | | | | | | | | | |
| APP'D | CGSH 7/4/95 | | | | | | | | | | | | | |

FORM 936-6

6-14-95

-Sighting device with lamp terminals:
Adjust position of sighting device until an image of the side view of the lamp filament appears in the sighting device. This image should appear as a straight line and be centered on the sighting device crosshairs. See Figure 2.

-Sighting device perpendicular to lamp terminals:
Adjust position of sighting device until an image of the front view of the lamp filament appears in the sighting device. This image should appear as an inverted "V" shape and be centered on the sighting device crosshairs. See Figure 2.

While holding the sighting device in its adjusted position, lightly tighten the set screw (ref. 7) against the ball (ref. 14) being careful not to distort the sighting device cylinder. Lock the set screw in place by tightening the lock nut (ref. 8). Recheck the image in the sighting device to make sure that it is still visible and centered. If not, loosen the lock nut/set screw and readjust the sighting device.

F. After both sighting devices have been adjusted and locked in place, replace the lens unit back into the signal using the opposite procedure to that found in part D. Check that the beam alignment is unchanged and is still correct. If not, readjust.

G. Perform steps A-F on all lens units in the signal head. When all lens units in the signal head are completed the testing and adjustment for that unit is done.

REV

| TEST SPECIFICATIONS | TS54360-3 Gr. 1<br>SH.3 |
|---|---|

6-14-85

6-14-

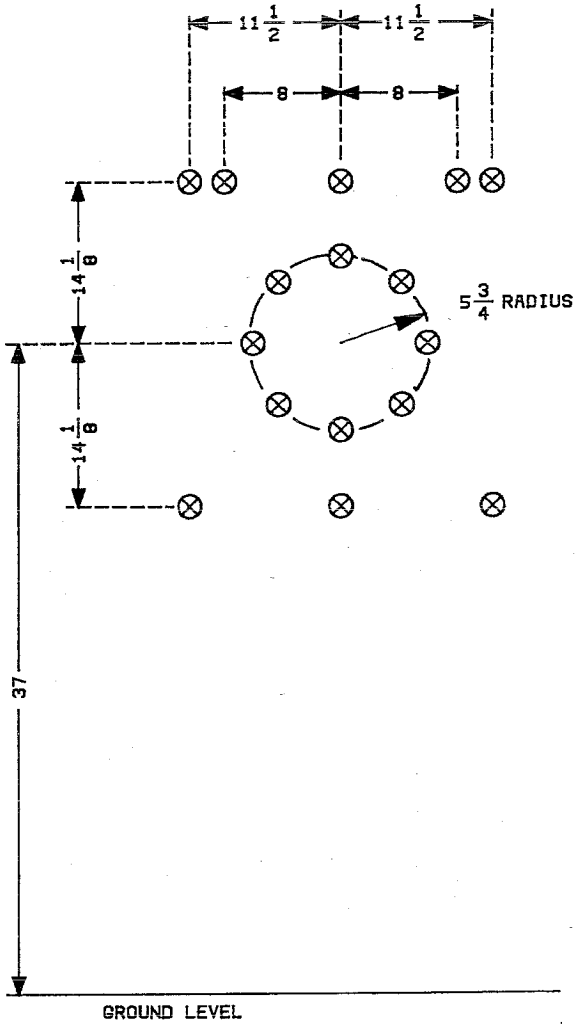



FIG.1
VA SIGNAL TARGET

F4284A

| TEST SPECIFICATIONS | TS54360-3Gr.1<br>SH.4 |
|---|---|

6-14-55

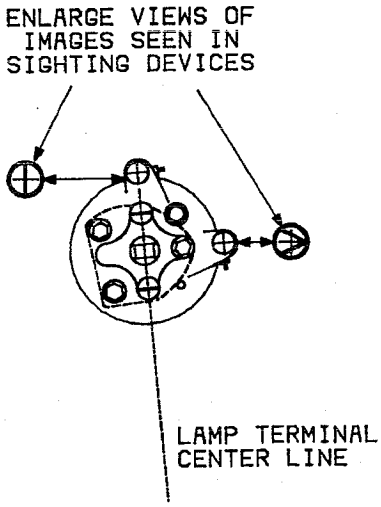



FIG.2

# SIGNAL COMPLETE

# 54360-003-28

|S|I|G|N|A|L| |V|A| |C|L| |D|W|A|R|F| | |

PER FIG. A-4-9 (B&O DWG) FILE 190R-1
TEST PER SPEC: TS54630-003-001

4
54360-003-00 (FIG. 6)

54360-3 GR. 28, REV. A, DTD. 1-16-57

here are some prices of parts (note-prices do not include freight)

**COLOR POSITION LIGHT DWARF SIGNAL WITH 4 INCH DOUBLET LENS**

**UNIT WITH FOCUS FINDERS.**

| | | | | |
|---|---|---|---|---|
| 2 | 53071-033-00 | 1 | Case (Marker Light) | 282.14 |
| 1 | 53071-026-00 | 2 | Case (Signal Head) | 445.19 |
| 1 | 53071-049-00 | 3 | Case (Lower) | 763.65 |
| 5 | 36727-053-00 | 4 | Door (Marker Light) | 55.60 |
| 1 | 36727-052-00 | 5 | Door (Signal Head) | 138.32 |
| 1 | 53057-005-01 | 6 | Door Comp, (Lower) | |
| 14 | 56895-000-02 | 7 | Receptacle Unit Comp | 402.48 |
| 9.69 | 43460-021-00 | 8 | Gasket (Marker Light) | |
| 4.33 | 43460-021-00 | 9 | Gasket, (Signal Head) | |
| 42 | 03608-012-ON | 10 | Screw, .164-32 x .38 Lg Pan Hd | |
| 42 | 53029-068-00 | 11 | Washer, .164 ID, .340 OD, .023 Thk Shk'prf | |
| 70 | 03610-112-ON | 12 | Screw, .190-32 x .38 Lg Pan Hd | |
| 56 | 01273-004-ON | 13 | Washer, .190 ID, .334 OD, .047 Thk Lock | |
| 42 | 03606-008-ON | 14 | Screw, .138-32 x .25 Lg Pan Hd | |
| 42 | 53029-067-00 | 15 | Washer, .138 ID, .295 OD, .021 Thk Shk'prf | |
| 42 | 53721-026-00 | 16 | Clip | |
| 14 | 49127-051-00 | 17 | Hood | 26.52 |
| 14 | 09238-110-00 | 18 | Lens, Rndl | |
| 14 | 56902-028-00 | 19 | Lens | |
| 2 | 56901-000-00 | 20 | Lens, Inner Doublet (Green) | |

| A42170 B TMS/RWD CGS | A43311 C RES/RWD CGS | A45140 D MC/RWD CGS | A45816 E TMS/RWD CGS | A53995 F MJB/CME WDR |
|---|---|---|---|---|
| 4 | 56901-001-00 | 20 | Lens, Inner Doublet (Yellow) | |
| 2 | 56901-002-00 | 20 | Lens, Inner Doublet (Red) | |
| 2 | 56901-003-00 | 20 | Lens, Inner Doublet (Lunar White) | |
| 4 | 56901-005-00 | 20 | Lens, Inner Doublet (Clear) | |
| 28 | 13014-456-00 | 21 | Gasket | |
| 14 | 56904-000-00 | 22 | Ring, Bezel | |
| 14 | 43983-071-00 | 23 | Ring Bezel | |
| 10 | 00791-001-ON | 24 | Rivet, .250 x .69 Rd Hd | |
| 5 | 39319-020-00 | 25 | Bolt, .375-16 x 2.00 Lg Eye | |
| 7 | 10117-000-00 | 26 | Nut, .375-16 Wing | |
| 7 | 00869-000-ON | 27 | Rivet, .25 x 1.00 Rd Hd | |
| 1 | 10118-005-00 | 28 | Nut, .625-11 Wing | |
| 1 | 00980-059-00 | 29 | Stud, .625 X 6.63 Lg | |
| 1 | 01299-000-ON | 30 | Nipple, .75 Close | |
| 2 | 00826-000-ON | 31 | Nut, .750-14 T&B Lock .19 Thk | |
| 4 | 03410-120-ON | 34 | Screw, .190-32 x .63 Lg Fill Hd | |
| 19 | 53029-069-00 | 35 | Washer, .190 ID, .381 OD, .025 Thk Shk'prf | |
| 1 | 46048-023-01 | 36 | Terminal Block Comp, (6 Way) | |
| 1 | 46048-023-04 | 36 | Terminal Block Comp (4 Way) | |
| 2 | 39319-033-00 | 37 | Bolt, .375-16, 3.88 Lg Eye | |
| 12 | 01250-007-ON | 38 | Washer, .164 ID, .500 OD, .040 Thk Flat | |

| | | | |
|---|---|---|---|
| 6 | 42333-046-00 | 39 | Nut, .164-32 Elastic Stop |
| 6 | 03308-064-ON | 40 | Screw, .164-32 x 2.00 Lg Flat Hd |
| 6 | 07350-186-00 | 41 | Bushing |
| 2 | 02878-003-00 | 46 | Screw, .313-18 x 1.50 Lg Hex Hd |
| 14 | 00677-000-0N | 47 | Pin, .063 x .50 Lg Escutcheon |
| 14 | 32518-002-00 | 48 | Guide |
| 4 | 53029-076-00 | 49 | Washer, .313 ID, .610 OD, .034 Thk Shk'prf |
| 2 | 42187-000-00 | 50 | Bolt, .500-13 x 1.50 Lg Sq Hd & Sq Nut |
| 4 | 48885-002-00 | 51 | Disc, Lens Mtg |
| 1 | 33714-003-00 | 52 | Disc |
| 3 | 03610-116-ON | 53 | Screw, .190-32 x .50 Lg Pan Hd |
| 1.125 | 82290-000-01 | 54 | Tubing, .500 Plastic (Clear) Per 82P0012 |
| 14 | 59825-149-00 | 56 | Terminal, .164 Post, (#22-18) |
| 28 | 59825-124-00 | 57 | Terminal, .250 Post, (#22-16) |
| 6 | 04906-119-00 | 58 | Connector |
| 14 | 53114-001-00 | 59 | Clip, Wire |
| 14 | 01272-007-ON | 60 | Nut, .190-32 Hex, .13 Thk |
| 2 | 53071-034-00 | 61 | Case, Marker Light |
| 2 | 46190-030-00 | 62 | Conduit, .500 x 4.25 |
| 8 | 08321-008-00 | 63 | Washer, .890 ID, 1.750 OD, .06 Thk Flat |
| 16 | 27589-000-00 | 64 | Nut, .500 T&B Lock .16 Thk |
| 8 | 01333-009-00 | 65 | Washer, .875 ID, 1.375 OD Flat |
| 1 | 41885-227-00 | 66 | Plate, Support (Upper Markers) |

| | | | |
|---|---|---|---|
| 8 | 00441-006-ON | 67 | Screw, .313-18 x .75 Lg Hex Hd |
| 2 | 51432-312-00 | 68 | Strap, Locking (Upper Markers) |
| 8 | 00204-000-ON | 69 | Rivet, .188 x .50 Lg Rd Hd |
| 1 | 53071-048-00 | 70 | Case (Marker Light) |
| 2 | 46190-038-00 | 71 | Conduit, .50 x 7.13 Lg |
| 1 | 41885-068-00 | 72 | Plate, Terminal Block Support |
| 2 | 03310-120-ON | 73 | Screw, .190-32 x .63 Lg Flat Hd |
| 1 | 41885-066-00 | 74 | Plate, Support (Lower Markers) |
| 2 | 51432-086-00 | 75 | Strap, Locking (Lower Markers) |
| 14 | 13014-609-00 | 76 | Gasket |
| 2 | 13014-610-00 | 77 | Gasket |
| 6 | 13014-611-00 | 78 | Gasket |
| 2 | 01273-010-ON | 79 | Washer, .500 ID, .869 OD, .125 Lock |
| 1 | 04906-020-00 | 81 | Connector |
| 36 | 80557-076-01 | | Wire, #18 Ga Brwon 2 Cond. Type SP-1 (Per 82H0003) |
| --- | 43989-284-00 | -- | Wiring Diagram |

**THE FOLLOWING PARTS NOT INCLUDED IN GROUP; MUST BE SPECIFIED SEPARATELY ON SHIPPING ORDER WHEN REQUIRED..**

| | | | |
|---|---|---|---|
| 14 | 34866 KN | 55 | Lamp |